Amir H. Gandomi · Amir H. Alavi Conor Ryan *Editors* 

# Handbook of Genetic Programming Applications

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# Online Handbook Genetic Programming Applications Gandomi

Sebastián Ventura, José María Luna

#### **Online Handbook Genetic Programming Applications Gandomi:**

Handbook of Genetic Programming Applications Amir H. Gandomi, Amir H. Alavi, Conor Ryan, 2015-11-06 This contributed volume written by leading international researchers reviews the latest developments of genetic programming GP and its key applications in solving current real world problems such as energy conversion and management financial analysis engineering modeling and design and software engineering to name a few Inspired by natural evolution the use of GP has expanded significantly in the last decade in almost every area of science and engineering Exploring applications in a variety of fields the information in this volume can help optimize computer programs throughout the sciences Taking a hands on approach this book provides an invaluable reference to practitioners providing the necessary details required for a successful application of GP and its branches to challenging problems ranging from drought prediction to trading volatility It also demonstrates the evolution of GP through major developments in GP studies and applications It is suitable for advanced students who wish to use relevant book chapters as a basis to pursue further research in these areas as well as experienced practitioners looking to apply GP to new areas The book also offers valuable supplementary material for design courses and Pattern Mining with Evolutionary Algorithms Sebastián Ventura, José María Luna, 2016-06-13 computation in engineering This book provides a comprehensive overview of the field of pattern mining with evolutionary algorithms To do so it covers formal definitions about patterns mining type of patterns and the usefulness of patterns in the knowledge discovery process As it is described within the book the discovery process suffers from both high runtime and memory requirements especially when high dimensional datasets are analyzed To solve this issue many pruning strategies have been developed Nevertheless with the growing interest in the storage of information more and more datasets comprise such a dimensionality that the discovery of interesting patterns becomes a challenging process In this regard the use of evolutionary algorithms for mining pattern enables the computation capacity to be reduced providing sufficiently good solutions This book offers a survey on evolutionary computation with particular emphasis on genetic algorithms and genetic programming Also included is an analysis of the set of quality measures most widely used in the field of pattern mining with evolutionary algorithms This book serves as a review of the most important evolutionary algorithms for pattern mining It considers the analysis of different algorithms for mining different type of patterns and relationships between patterns such as frequent patterns infrequent patterns patterns defined in a continuous domain or even positive and negative patterns A completely new problem in the pattern mining field mining of exceptional relationships between patterns is discussed In this problem the goal is to identify patterns which distribution is exceptionally different from the distribution in the complete set of data records Finally the book deals with the subgroup discovery task a method to identify a subgroup of interesting patterns that is related to a dependent variable or target attribute This subgroup of patterns satisfies two essential conditions The Semantic Web: ESWC 2020 Satellite Events Andreas Harth. Valentina interpretability and interestingness

Presutti, Raphaël Troncy, Maribel Acosta, Axel Polleres, Javier D. Fernández, Josiane Xavier Parreira, Olaf Hartig, Katja Hose, Michael Cochez, 2020-11-10 Chapter ABECTO An ABox Evaluation and Comparison Tool for Ontologies is available open access under a Creative Commons Attribution 4 0 International License via link springer com **Intelligence Systems for** Earth, Environmental and Planetary Sciences Hossein Bonakdari, Silvio José Gumiere, 2024-07-30 Intelligence Systems for Earth Environmental and Planetary Sciences Methods Models and Applications provides cutting edge theory and applications of modern day artificial intelligence and data science in the Earth environment and planetary science fields The book is divided into three sections i Methods covering the fundamentals of intelligence systems along with an introduction to the preparation of datasets ii Models detailing model development data assimilation and techniques in each field and iii Applications presenting case studies of artificial intelligence and data science solutions to Earth environmental and planetary sciences problems as well as future perspectives Intelligence Systems for Earth Environmental and Planetary Sciences will be of interest to students academics and postgraduate professionals in the field of applied sciences Earth environmental and planetary sciences and would also serve as an excellent companion resource to courses studying artificial intelligence applications for theoretical and practical studies in Earth environmental and planetary sciences Facilitates the application of artificial intelligence and data science systems to create comprehensive methodologies for analyzing processing predicting and management strategies in the fields of Earth environment and planetary science Developed with an interdisciplinary framework with an aim to promote artificial intelligence models for real time Earth systems Includes a section on case studies of artificial intelligence and data science solutions to Earth environmental and planetary sciences problems as well as future perspectives Handbook of Research on Novel Soft Computing Intelligent Algorithms: Theory and Practical Applications Vasant, Pandian M., 2013-08-31 This book explores emerging technologies and best practices designed to effectively address concerns inherent in properly optimizing advanced systems demonstrating applications in areas such as bio engineering space exploration industrial informatics information security and nuclear and renewable energies Provided by publisher Handbook of Machine Learning Applications for Genomics Sanjiban Sekhar Roy, Y.-H. Taguchi, 2022-06-23 Currently machine learning is playing a pivotal role in the progress of genomics. The applications of machine learning are helping all to understand the emerging trends and the future scope of genomics This book provides comprehensive coverage of machine learning applications such as DNN CNN and RNN for predicting the sequence of DNA and RNA binding proteins expression of the gene and splicing control In addition the book addresses the effect of multiomics data analysis of cancers using tensor decomposition machine learning techniques for protein engineering CNN applications on genomics challenges of long noncoding RNAs in human disease diagnosis and how machine learning can be used as a tool to shape the future of medicine More importantly it gives a comparative analysis and validates the outcomes of machine learning methods on genomic data to the functional laboratory tests or by formal clinical assessment The topics of this book will cater interest to

Automation and Computational Intelligence for Road Maintenance and Management Hamzeh Zakeri, Fereidoon Moghadas Nejad, Amir H. Gandomi, 2022-07-13 Automation and Computational Intelligence for Road Maintenance and Management A comprehensive computational intelligence toolbox for solving problems in infrastructure management In Automation and Computational Intelligence for Road Maintenance and Management a team of accomplished researchers delivers an incisive reference that covers the latest developments in computer technology infrastructure management. The book contains an overview of foundational and emerging technologies and methods in both automation and computational intelligence as well as detailed presentations of specific methodologies. The distinguished authors emphasize the most recent advances in the maintenance and management of infrastructure robotics automated inspection remote sensing and the applications of new and emerging computing technologies including artificial intelligence evolutionary computing fuzzy logic genetic algorithms knowledge discovery and engineering and more Automation and Computational Intelligence for Road Maintenance and Management explores a universal synthesis of the cutting edge in parameters and indices to evaluate models It also includes Thorough introductions to management science and the latest methods of automation and the structure and framework of automation and computing intelligence Comprehensive explorations of advanced image processing techniques recent advances in fuzzy and diagnosis automation Practical discussions of segmentation and fragmentation and different types of features and feature extraction methods In depth examinations of methods of classification along with various developed methodologies and models of quantification evaluation and indexing in

automation Perfect for postgraduate students in road and transportation engineering evaluation and assessment Automation and Computational Intelligence for Road Maintenance and Management will also earn a place in the libraries of researchers interested in or working with the evaluation and assessment of infrastructure **Nature-Inspired Algorithms and** Applications S. Balamurugan, Anupriya Jain, Sachin Sharma, Dinesh Goyal, Sonia Duggal, Seema Sharma, 2021-11-18 NATURE INSPIRED ALGORITHMS AND APPLICATIONS The book s unified approach of balancing algorithm introduction theoretical background and practical implementation complements extensive literature with well chosen case studies to illustrate how these algorithms work Inspired by the world around them researchers are gathering information that can be developed for use in areas where certain practical applications of nature inspired computation and machine learning can be applied This book is designed to enhance the reader s understanding of this process by portraying certain practical applications of nature inspired algorithms NIAs specifically designed to solve complex real world problems in data analytics and pattern recognition by means of domain specific solutions Since various NIAs and their multidisciplinary applications in the mechanical engineering and electrical engineering sectors and in machine learning image processing data mining and wireless networks are dealt with in detail in this book it can act as a handy reference guide Among the subjects of the 12 chapters are A novel method based on TRIZ to map real world problems to nature problems Applications of cuckoo search algorithm for optimization problems Performance analysis of nature inspired algorithms in breast cancer diagnosis Nature inspired computation in data mining Hybrid bat genetic algorithm based novel optimal wavelet filter for compression of image data Efficiency of finding best solutions through ant colony optimization techniques Applications of hybridized algorithms and novel algorithms in the field of machine learning Audience Researchers and graduate students in mechanical engineering electrical engineering machine learning image processing data mining and wireless networks will find this book very useful

Handbook of Research on Data-Driven Mathematical Modeling in Smart Cities Pramanik, Sabyasachi, Sagayam, K. Martin, 2023-02-17 A smart city utilizes ICT technologies to improve the working effectiveness share various data with the citizens and enhance political assistance and societal wellbeing The fundamental needs of a smart and sustainable city are utilizing smart technology for enhancing municipal activities expanding monetary development and improving citizens standards of living The Handbook of Research on Data Driven Mathematical Modeling in Smart Cities discusses new mathematical models in smart and sustainable cities using big data visualization tools in mathematical modeling machine learning based mathematical modeling and more It further delves into privacy and ethics in data analysis Covering topics such as deep learning optimization based data science and smart city automation this premier reference source is an excellent resource for mathematicians statisticians computer scientists civil engineers government officials students and educators of higher education librarians researchers and academicians

Proceedings of International Conference on Data Science and Applications Mukesh Saraswat, Sarbani Roy, Chandreyee Chowdhury, Amir H. Gandomi, 2021-11-22 This

book gathers outstanding papers presented at the International Conference on Data Science and Applications ICDSA 2021 organized by Soft Computing Research Society SCRS and Jadavpur University Kolkata India from April 10 to 11 2021 It covers theoretical and empirical developments in various areas of big data analytics big data technologies decision tree learning wireless communication wireless sensor networking bioinformatics and systems artificial neural networks deep learning genetic algorithms data mining fuzzy logic optimization algorithms image processing computational intelligence in civil engineering and creative computing Handbook of Formal Optimization Anand J. Kulkarni, Amir H. Gandomi, 2024-07-16 The formal optimization handbook is a comprehensive guide that covers a wide range of subjects It includes a literature review a mathematical formulation of optimization methods flowcharts and pseudocodes illustrations problems and applications results and critical discussions and much more The book covers a vast array of formal optimization fields including mathematical and Bayesian optimization neural networks and deep learning genetic algorithms and their applications hybrid optimization methods combinatorial optimization constraint handling in optimization methods and swarm based optimization This handbook is an excellent reference for experts and non specialists alike as it provides stimulating material The book also covers research trends challenges and prospective topics making it a valuable resource for those looking to expand their knowledge in this field Handbook On Computer Learning And Intelligence (In 2 Volumes) Plamen Parvanov Angelov, 2022-06-29 The Handbook on Computer Learning and Intelligence is a second edition which aims to be a one stop shop for the various aspects of the broad research area of computer learning and intelligence This field of research evolved so much in the last five years that it necessitates this new edition of the earlier Handbook on Computational Intelligence This two volume handbook is divided into five parts Volume 1 covers Explainable AI and Supervised Learning Volume 2 covers three parts Deep Learning Intelligent Control and Evolutionary Computation The chapters detail the theory methodology and applications of computer learning and intelligence and are authored by some of the leading experts in the respective areas The fifteen core chapters of the previous edition have been written and significantly refreshed by the same authors Parts of the handbook have evolved to keep pace with the latest developments in computational intelligence in the areas that span across Machine Learning and Artificial Intelligence The Handbook remains dedicated to applications and engineering orientated aspects of these areas over abstract theories Related Link s **Multi-objective Optimization** Techniques Tarik A. Rashid, Aram Mahmoon Ahmed, Bryar A. Hassan, Zaher Mundher Yaseen, Seyedali Mirjalili, Nebojsa Bacanin, Sinan Q. Salih, 2025-03-31 The book establishes how to design develop and test different hybrids of multi objective optimization algorithms It presents several application areas of multi objective optimization algorithms Presents a thorough analysis of equations mathematical models and mechanisms of multi objective optimization algorithms Explores different alternatives of multi objective optimization algorithms to solve binary multi objective noisy dynamic and combinatorial optimization problems Illustrates how to design develop and test different hybrids of multi objective optimization algorithms

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emergence in various professional fields due to its ability to process data and information in an efficient and productive manner Combining computational intelligence with these algorithms has created a trending subject of research on how much more beneficial intelligent inspired algorithms can be within companies and organizations As modern theories and applications are continually being developed in this area professionals are in need of current research on how intelligent algorithms are advancing in the real world The Handbook of Research on Advancements of Swarm Intelligence Algorithms for Solving Real World Problems is a pivotal reference source that provides vital research on the development of swarm intelligence algorithms and their implementation into current issues While highlighting topics such as multi agent systems bio inspired computing and evolutionary programming this publication explores various concepts and theories of swarm intelligence and outlines future directions of development This book is ideally designed for IT specialists researchers academicians engineers developers practitioners and students seeking current research on the real world applications of intelligent algorithms Handbook of Research on Biomimicry in Information Retrieval and Knowledge **Management** Hamou, Reda Mohamed, 2017-12-15 In the digital age modern society is exposed to high volumes of multimedia information In efforts to optimize this information there are new and emerging methods of information retrieval and knowledge management leading to higher efficiency and a deeper understanding of this data The Handbook of Research on Biomimicry in Information Retrieval and Knowledge Management is a critical scholarly resource that examines bio inspired classes that solve computer problems Featuring coverage on a broad range of topics such as big data analytics bioinformatics and black hole optimization this book is geared towards academicians practitioners and researchers seeking current research on the use of biomimicry in information and knowledge management **Source Code Modularization** Ayaz Isazadeh, Habib Izadkhah, Islam Elgedawy, 2017-10-10 This book presents source code modularization as a key activity in reverse engineering to extract the software architecture from the existing source code To this end it provides detailed techniques for source code modularization and discusses their effects on different software quality attributes Nonetheless it is not a mere survey of source code modularization algorithms but rather a consistent and unifying theoretical modularization framework and as such is the first publication that comprehensively examines the models and techniques for source code modularization It enables readers to gain a thorough understanding of topics like software artifacts proximity hierarchical and partitional modularization algorithms search and algebraic based software modularization software modularization evaluation techniques and software quality attributes and modularization This book introduces students and software professionals to the fundamental ideas of source code modularization concepts similarity dissimilarity metrics modularization metrics and quality assurance Further it allows undergraduate and graduate students in software engineering computer science and computer engineering with no prior experience in the software industry to explore the subject in a step by step manner Practitioners benefit from the structured presentation and comprehensive nature of the materials while the large

number of bibliographic references makes this book a valuable resource for researchers working on source code modularization Smart Agriculture Govind Singh Patel, Amrita Rai, Nripendra Narayan Das, R.P. Singh, 2021-02-10 This book endeavours to highlight the untapped potential of Smart Agriculture for the innovation and expansion of the agriculture sector The sector shall make incremental progress as it learns from associations between data over time through Artificial Intelligence deep learning and Internet of Things applications The farming industry and Smart agriculture develop from the stringent limits imposed by a farm s location which in turn has a series of related effects with respect to supply chain management food availability biodiversity farmers decision making and insurance and environmental concerns among others All of the above mentioned aspects will derive substantial benefits from the implementation of a data driven approach under the condition that the systems tools and techniques to be used have been designed to handle the volume and variety of the data to be gathered Contributions to this book have been solicited with the goal of uncovering the possibilities of engaging agriculture with equipped and effective profound learning algorithms Most agricultural research centres are already adopting Internet of Things for the monitoring of a wide range of farm services and there are significant opportunities for agriculture administration through the effective implementation of Machine Learning Deep Learning Big Data and IoT structures

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